



Bridge Inventory

Over 300 bridges within the Seattle city limits

- Bridge Owners
 - Seattle = 146 Bridges
 - WSDOT = 100 plus
 - King County = 3
 - Port of Seattle = 4
 - Private Bridges = 61 plus



Bridge Inventory

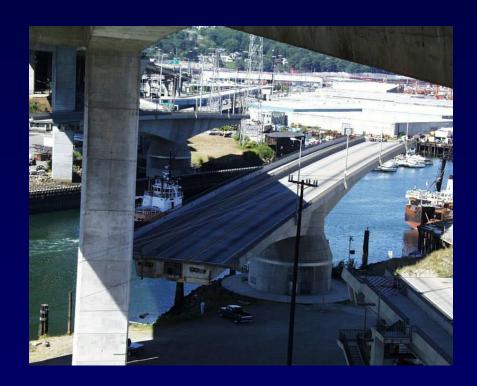
Seattle's bridges are larger and older than other bridges in the Puget Sound region.

- Average size
 - 1.5 X WSDOT Bridges
 - 8.5 X Local Agency
- Average Age
 - Seattle 56
 - WSDOT 41



Bridge Inventory

- Seattle has 146 Bridges
 - Diverse style, type and size
 - 4 movable bridges
- 46 bridges over 60 years old
- Estimated replacement cost is over \$1.5 billion



Bridge Management

With an older, aging inventory of bridges it is essential we have a well developed Bridge Management Program

- ✓ Follow NBIS guidelines
- ✓ Inventory know your bridge
- ✓ Condition Inspection
- ✓ Maintenance preserve what we have
- ✓ Audit verify you are achieving your goal



Bridge Management



U.S. Department of Transportation

Federal Highway Administration Publication No. FHWA NHI 03-001 October, 2002 Revised December, 2006

Public Safety

Bridge Inspector's Reference Manual



BIRM Volume 1



SDOT is compliant with:

- 23 CFR 650 Part C
- National Bridge Insp. Std.
- WSDOT Bridge Insp. Manual
- SDOT Q/A Procedures

Bridge Management

Inventory

- Understand the function of all elements of the bridge
- Load rating

Condition

- Routine Inspection
- Fracture Critical Inspection
- Monitoring (5 bridges & AWS)
- UBIT Inspection
- Special Inspection

Maintenance

- Engineering staff and skilled workforce
- Bridge Painting Program (\$24M over 18 years)





Private Bridges in the Right-of-Way









Private Bridges in the Right-of-Way

City Authority to regulate

- Council approved, SDOT permitted
- City Ordinance #96715 May 22, 1968
 SDOT inspect annually for public safety

Private Bridges in the Right-of-Way



- **SDOT Bridge Engineers** perform annual inspections of sky bridges for public safety
- Special Inspections by licensed engineers are required on bridges with unique features
- Defects noted during inspections are reported to bridge owners for repair

Questions?







